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Gateways # 1 & 3

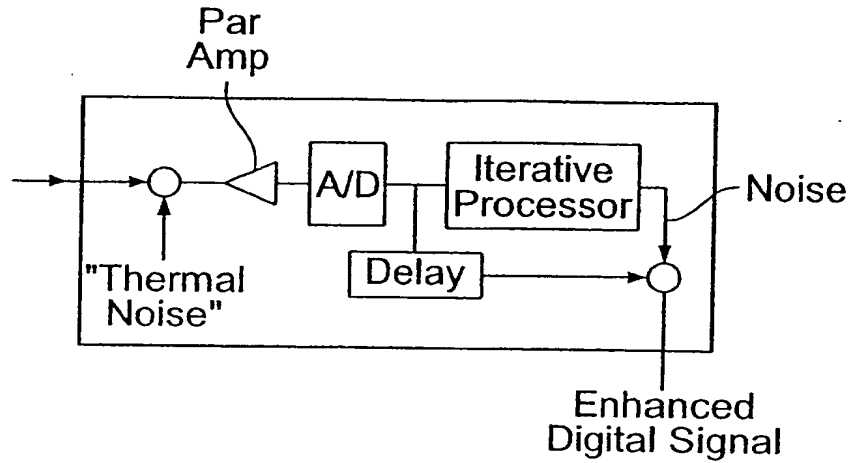


FIG. 1B

Gateway # 2

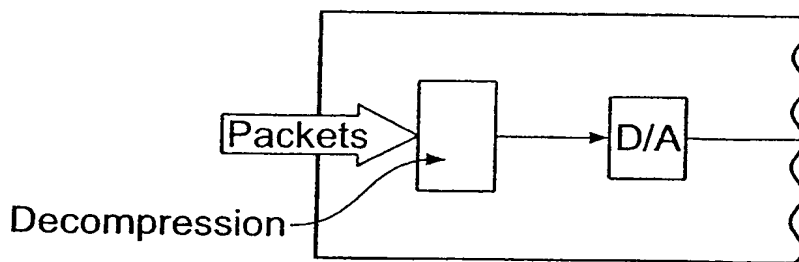


FIG. 1C

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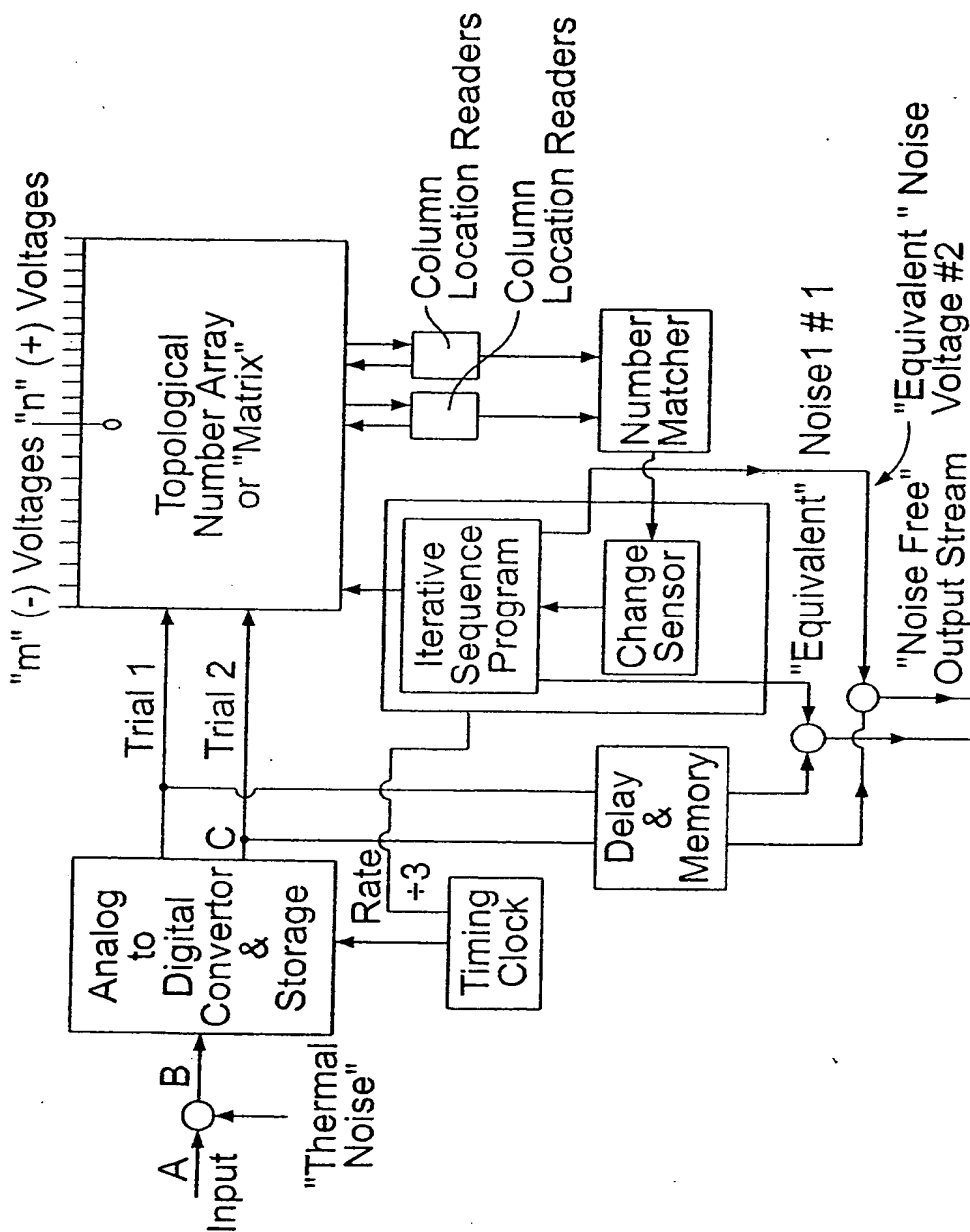


FIG. 2

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2-Wire ("Same" Signal - 2 Noises)

Option 1

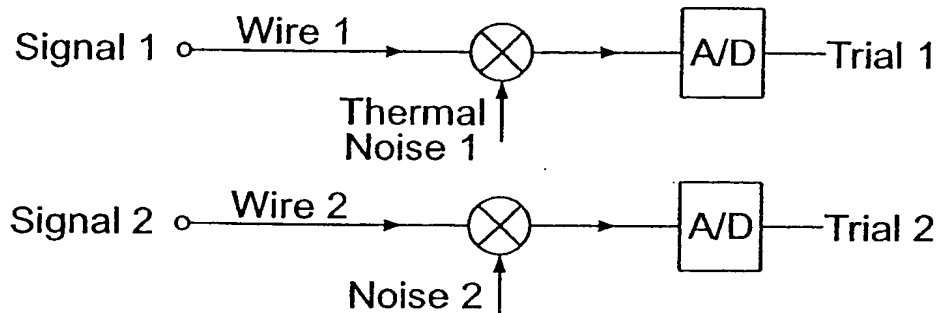


FIG. 3A

1-Wire Sequentially

Option 2

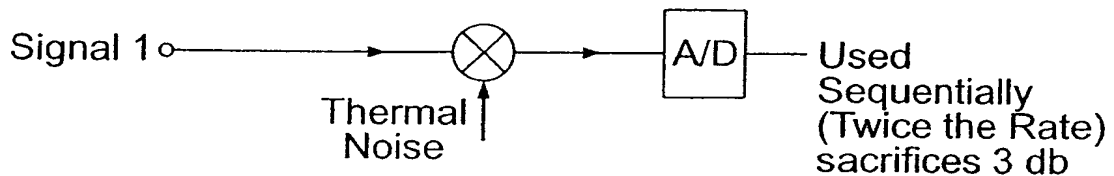


FIG. 3B

1-Wire Using in Phase I and Quadrature Q

Option 3

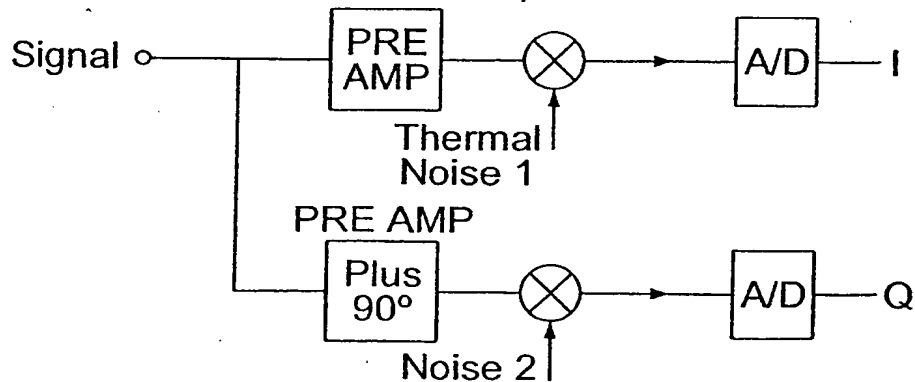


FIG. 3C

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I data ...		0 dB ...		Group		Average I Values		Avg Scanned in Opposite Sense										
	Mic(A)	-0.9v	-0.85v	-0.80v	-0.75v	-0.70v	-0.65v	-0.60v	-0.55v	-0.50v	-0.45v	-0.40v	-0.35v	-0.30v	-0.25v	-0.20v	-0.15v	-0.1v
Avg 20B	0.041	1.206 -0.552	1.156 -0.502	1.106 -0.452	1.056 -0.402	1.006 -0.352	1.956 -0.306	0.906 -0.252	0.856 -0.202	0.806 -0.152	0.756 -0.102	0.706 -0.052	0.656 -0.002	0.606 0.048	0.556 0.098	0.506 0.148	0.456 0.198	0.406 0.248
Avg 21A	-0.052	-0.591 -1.161	0.541 -1.111	0.491 -1.061	0.441 -1.011	0.391 -0.961	0.341 -0.911	0.291 -0.861	0.241 -0.811	0.191 -0.761	0.141 -0.711	0.091 -0.661	0.041 -0.611	0.009 -0.561	0.059 -0.511	0.109 -0.461	-0.159 -0.411	-0.209 -0.361
Avg 22A	0.060	0.735 -1.005	0.685 -0.935	0.635 -0.905	0.585 -0.855	0.535 -0.805	0.485 -0.755	0.435 -0.705	0.385 -0.655	0.335 -0.605	0.285 -0.555	0.235 -0.505	0.185 -0.455	0.135 -0.405	0.085 -0.355	0.035 -0.305	-0.015 -0.255	-0.065 -0.205
Avg 23A	0.023	0.654 -1.124	0.604 -1.074	0.554 -1.024	0.504 -0.974	0.454 -0.924	0.404 -0.874	0.354 -0.824	0.304 -0.774	0.254 -0.724	0.204 -0.674	0.154 -0.624	0.104 -0.574	0.054 -0.524	0.004 -0.474	0.046 -0.424	-0.096 -0.374	0.146 -0.324
Avg 24A	-0.002	1.166 -0.637	1.116 -0.587	1.066 -0.537	1.016 -0.487	0.966 -0.437	0.916 -0.387	0.866 -0.337	0.816 -0.287	0.766 -0.237	0.716 -0.187	0.666 -0.137	0.616 -0.087	0.566 -0.037	0.516 0.013	0.466 0.063	0.416 0.113	0.366 0.163
Avg 25B	-0.032	1.100 -0.732	1.050 -0.682	1.000 -0.632	0.950 -0.582	0.900 -0.532	0.850 -0.482	0.800 -0.432	0.750 -0.382	0.700 -0.332	0.650 -0.282	0.600 -0.232	0.550 -0.182	0.500 -0.132	0.450 -0.082	0.400 -0.032	0.350 0.018	0.250 0.068
Avg 26B	-0.163	0.487 -1.481	0.432 -1.431	0.387 -1.381	0.337 -1.331	0.287 -1.281	0.237 -1.231	0.187 -1.181	0.137 -1.131	0.087 -1.081	0.037 -0.981	-0.013 -0.931	-0.063 -0.881	-0.113 -0.831	-0.163 -0.781	-0.213 -0.731	-0.263 -0.681	-0.313 -0.631
Avg 27A	-0.120	0.924 -0.756	0.874 -0.706	0.824 -0.656	0.774 -0.606	0.724 -0.556	0.674 -0.506	0.624 -0.456	0.574 -0.406	0.524 -0.356	0.474 -0.306	0.424 -0.256	0.374 -0.206	0.324 -0.156	0.274 -0.106	0.224 -0.056	0.174 -0.006	0.124 0.044
Avg 28C	-0.178	0.782 -0.840	0.732 -0.790	0.682 -0.740	0.632 -0.690	0.582 -0.640	0.532 -0.590	0.482 -0.540	0.432 -0.490	0.382 -0.440	0.332 -0.380	0.282 -0.340	0.232 -0.290	0.182 -0.240	0.132 -0.190	0.082 -0.140	0.032 -0.090	-0.018 -0.040
Avg 29C	-0.129	1.246 -0.683	1.196 -0.633	1.146 -0.583	1.096 -0.533	1.046 -0.483	0.996 -0.433	0.946 -0.383	0.896 -0.333	0.846 -0.283	0.796 -0.233	0.746 -0.183	0.696 -0.133	0.646 -0.083	0.596 -0.033	0.546 0.017	0.496 0.067	0.446 0.117
Avg 30B	0.032	0.848 -0.921	0.798 -0.871	0.748 -0.821	0.698 -0.771	0.648 -0.721	0.598 -0.671	0.548 -0.621	0.498 -0.571	0.448 -0.521	0.398 -0.471	0.348 -0.421	0.298 -0.371	0.248 -0.321	0.198 -0.271	0.148 -0.221	0.098 -0.171	0.048 -0.121
Avg 31C	-0.174	0.786 -1.187	0.736 -1.137	0.686 -1.087	0.636 -1.037	0.586 -0.987	0.536 -0.937	0.486 -0.887	0.436 -0.837	0.386 -0.787	0.336 -0.737	0.286 -0.687	0.236 -0.637	0.186 -0.587	0.136 -0.537	0.086 -0.487	0.036 -0.437	-0.014 -0.387
Avg 32C	-0.015	1.060 -0.755	1.010 -0.705	0.960 -0.655	0.910 -0.605	0.860 -0.555	0.810 -0.505	0.760 -0.455	0.710 -0.405	0.660 -0.355	0.610 -0.305	0.560 -0.255	0.510 -0.205	0.460 -0.155	0.410 -0.105	0.360 -0.055	0.310 0.005	0.260 0.045
Avg 33C	-0.050	0.993 -0.887	0.943 -0.837	0.893 -0.787	0.843 -0.737	0.793 -0.687	0.743 -0.637	0.693 -0.587	0.643 -0.537	0.593 -0.487	0.543 -0.437	0.493 -0.387	0.443 -0.337	0.393 -0.287	0.343 -0.237	0.293 -0.187	0.243 -0.137	0.193 -0.087
Avg 34A	-0.203	0.530 -1.479	0.480 -1.429	0.430 -1.379	0.380 -1.329	0.330 -1.279	0.280 -1.229	0.230 -1.179	0.180 -1.129	0.130 -1.079	0.080 -1.029	-0.030 -0.979	-0.020 -0.929	-0.070 -0.879	-0.120 -0.829	-0.170 -0.779	-0.220 -0.729	-0.270 -0.679
Avg 35C	-0.083	1.035 -0.848	0.985 -0.798	0.935 -0.748	0.885 -0.698	0.835 -0.648	0.785 -0.598	0.735 -0.548	0.685 -0.498	0.635 -0.448	0.585 -0.398	0.535 -0.348	0.485 -0.298	0.435 -0.248	0.385 -0.198	0.335 -0.148	0.285 -0.098	0.235 -0.048
Avg 36B	-0.213	1.171 -0.841	1.121 -0.791	1.071 -0.741	1.021 -0.691	0.971 -0.641	0.921 -0.591	0.871 -0.541	0.821 -0.491	0.771 -0.441	0.721 -0.391	0.671 -0.341	0.621 -0.291	0.571 -0.241	0.521 -0.191	0.471 -0.141	0.421 -0.091	0.371 -0.041
Avg 37C	0.015	1.024 -0.761	0.974 -0.711	0.924 -0.661	0.874 -0.611	0.824 -0.561	0.774 -0.511	0.724 -0.461	0.674 -0.411	0.624 -0.361	0.574 -0.311	0.524 -0.261	0.474 -0.211	0.424 -0.161	0.374 -0.111	0.324 -0.061	0.274 -0.011	0.224 0.039
Avg 38B	0.003	0.616 -1.181	0.566 -1.131	0.516 -1.081	0.466 -1.031	0.416 -0.981	0.366 -0.931	0.316 -0.881	0.266 -0.831	0.216 -0.781	0.166 -0.731	0.116 -0.687	0.066 -0.631	-0.016 -0.581	-0.039 -0.531	-0.084 -0.481	-0.134 -0.431	-0.184 -0.381

FIG. 4A

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-0.05V	0.00V	0.05V	0.10V	0.15V	0.20V	0.25V	0.30V	0.35V	0.40V	0.45V	0.50V	0.55V	0.60V	0.65V	0.70V	0.75V
0.356 0.298	0.306 0.348	0.256 0.398	0.206 0.448	0.156 0.498	0.106 0.548	0.056 0.598	0.006 0.648	-0.044 0.698	-0.094 0.748	-0.144 0.798	-0.194 0.848	-0.244 0.898	-0.294 0.948	-0.344 0.998	-0.394 1.048	-0.444 1.098
-0.159 -0.311	-0.209 -0.261	-0.259 -0.211	-0.309 -0.161	-0.359 -0.111	-0.409 -0.061	-0.459 -0.011	-0.509 0.039	-0.559 0.089	-0.609 0.139	-0.659 0.189	-0.709 0.239	-0.759 0.289	-0.809 0.339	-0.859 0.389	-0.909 0.439	-0.959 0.489
-0.115 -0.155	-0.165 -0.105	-0.215 -0.055	-0.265 0.005	-0.315 0.045	-0.365 0.095	-0.415 0.145	-0.465 0.195	-0.515 0.245	-0.565 0.295	-0.615 0.345	-0.665 0.395	-0.715 0.445	-0.765 0.495	-0.815 0.545	-0.865 0.595	-0.915 0.645
-0.196 -0.274	-0.246 -0.224	-0.296 -0.174	-0.346 -0.124	-0.396 -0.074	-0.446 -0.024	-0.496 0.026	-0.546 0.076	-0.596 0.126	-0.646 0.176	-0.696 0.226	-0.746 0.276	-0.796 0.326	-0.846 0.376	-0.896 0.426	-0.946 0.476	-0.996 0.526
0.316 0.213	0.266 0.263	0.216 0.313	0.166 0.363	0.116 0.413	0.066 0.463	0.016 0.513	-0.034 0.563	-0.084 0.613	-0.134 0.663	-0.184 0.713	-0.234 0.763	-0.284 0.813	-0.334 0.863	-0.384 0.913	-0.434 0.963	-0.484 1.013
0.250 0.118	0.200 0.165	0.150 0.218	0.100 0.265	0.050 0.318	0.000 0.368	-0.050 0.418	-0.100 0.468	-0.150 0.518	-0.200 0.568	-0.250 0.618	-0.300 0.668	-0.350 0.718	-0.400 0.768	-0.450 0.818	-0.500 0.868	-0.550 0.918
-0.363 -0.631	-0.413 -0.581	-0.463 -0.531	-0.513 -0.481	-0.563 -0.431	-0.613 -0.381	-0.663 -0.331	-0.713 -0.281	-0.763 -0.231	-0.813 -0.181	-0.863 -0.131	-0.913 -0.081	-0.963 -0.031	-1.013 0.019	-1.063 0.069	-1.113 0.119	-1.163 0.169
0.074 0.094	0.024 0.144	0.026 0.184	-0.076 0.244	-0.126 0.284	-0.176 0.344	-0.226 0.384	-0.276 0.444	-0.326 0.484	-0.376 0.544	-0.426 0.584	-0.476 0.644	-0.526 0.684	-0.576 0.744	-0.626 0.784	-0.676 0.844	-0.726 0.884
-0.068 0.010	-0.118 0.060	-0.168 0.110	-0.218 0.160	-0.268 0.210	-0.318 0.260	-0.368 0.310	-0.418 0.360	-0.468 0.410	-0.518 0.460	-0.568 0.510	-0.618 0.560	-0.668 0.610	-0.718 0.660	-0.768 0.710	-0.818 0.760	-0.868 0.810
0.396 0.167	0.346 0.217	0.296 0.267	0.246 0.317	0.196 0.367	0.146 0.417	0.096 0.467	0.046 0.517	-0.004 0.567	-0.054 0.617	-0.104 0.667	-0.154 0.717	-0.204 0.767	-0.254 0.817	-0.304 0.867	-0.354 0.917	-0.404 0.964
0.002 -0.071	-0.052 -0.021	-0.102 0.028	-0.152 0.079	-0.202 0.129	-0.252 0.179	-0.302 0.229	-0.352 0.279	-0.402 0.329	-0.452 0.379	-0.502 0.429	-0.552 0.479	-0.602 0.529	-0.652 0.579	-0.702 0.629	-0.752 0.679	-0.802 0.729
-0.064 -0.337	-0.114 -0.287	-0.164 -0.237	-0.214 -0.187	-0.264 -0.137	-0.314 -0.087	-0.364 -0.037	-0.414 0.013	-0.464 0.063	-0.514 0.113	-0.564 0.163	-0.614 0.213	-0.664 0.263	-0.714 0.313	-0.764 0.363	-0.814 0.413	-0.864 0.463
0.210 0.095	0.160 0.145	0.110 0.195	0.060 0.245	0.010 0.295	-0.040 0.345	-0.090 0.395	-0.140 0.445	-0.190 0.495	-0.240 0.545	-0.290 0.595	-0.340 0.645	-0.390 0.695	-0.440 0.745	-0.490 0.795	-0.540 0.845	-0.590 0.895
0.143 -0.037	0.093 0.013	0.043 0.063	-0.007 0.113	-0.057 0.163	-0.107 0.213	-0.157 0.263	-0.207 0.313	-0.257 0.363	-0.307 0.413	-0.357 0.463	-0.407 0.513	-0.457 0.563	-0.507 0.613	-0.557 0.663	-0.607 0.713	-0.657 0.763
-0.320 -0.629	-0.370 -0.579	-0.420 -0.529	-0.470 -0.479	-0.520 -0.429	-0.570 -0.379	-0.620 -0.329	-0.670 -0.279	-0.720 -0.229	-0.770 -0.179	-0.820 -0.129	-0.870 -0.079	-0.920 -0.029	-0.970 0.021	-1.020 0.071	-1.070 0.121	-1.120 0.171
0.185 0.002	0.135 0.052	0.085 0.102	0.035 0.152	-0.015 0.202	-0.065 0.252	-0.115 0.302	-0.165 0.352	-0.215 0.402	-0.265 0.452	-0.315 0.502	-0.365 0.552	-0.415 0.602	-0.465 0.652	-0.515 0.702	-0.565 0.752	-0.615 0.802
0.321 0.009	0.271 0.059	0.221 0.109	0.171 0.159	0.121 0.209	0.071 0.259	-0.021 0.309	-0.071 0.359	-0.129 0.409	-0.179 0.459	-0.229 0.509	-0.279 0.559	-0.329 0.609	-0.379 0.659	-0.429 0.709	-0.479 0.759	-0.529 0.809
0.174 0.089	0.124 0.139	0.074 0.189	0.024 0.239	-0.026 0.289	-0.076 0.339	-0.126 0.389	-0.176 0.439	-0.226 0.489	-0.276 0.539	-0.326 0.589	-0.376 0.639	-0.426 0.689	-0.476 0.739	-0.526 0.789	-0.576 0.839	-0.626 0.889
-0.234 -0.331	-0.284 -0.281	-0.334 -0.231	-0.384 -0.181	-0.434 -0.131	-0.484 -0.081	-0.534 -0.031	-0.584 0.019	-0.634 0.069	-0.684 0.119	-0.734 0.169	-0.784 0.219	-0.834 0.269	-0.884 0.319	-0.934 0.369	-0.984 0.419	-1.034 0.469

FIG. 4B

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Regular & Reverse Scans

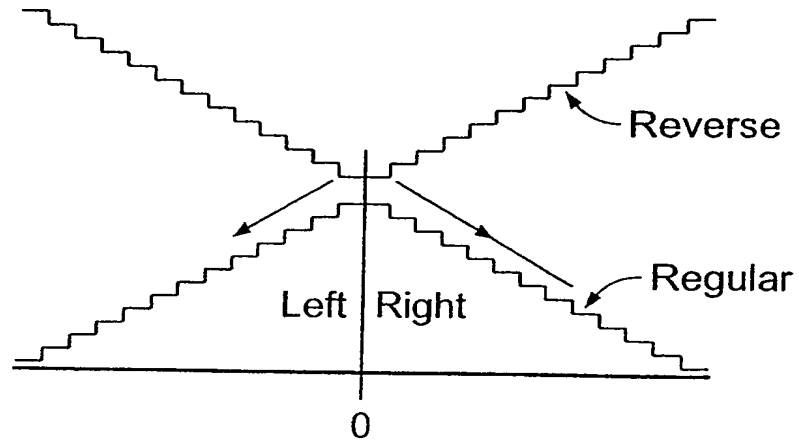


FIG. 5A

Column Location

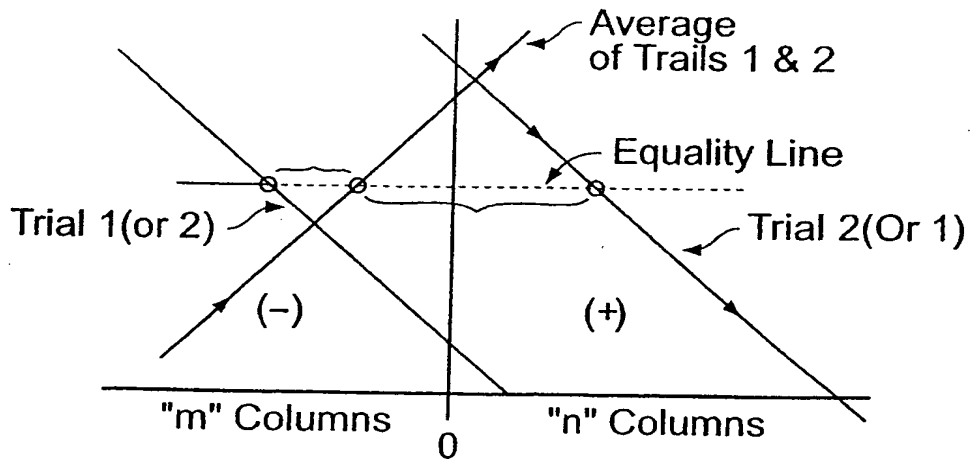


FIG. 5B

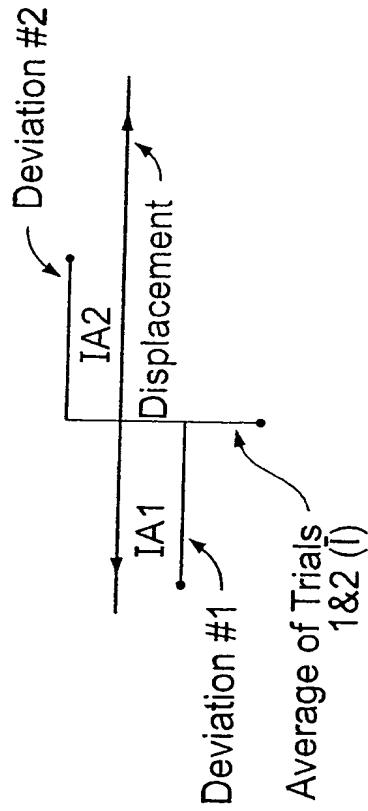
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I data ...		0 dB ...		Group		Average I Values		Avgs Scanned in Opposite Sense											
	Mic(A)	-0.9v	-0.85v	-0.80v	-0.75v	-0.70v	-0.65v	-0.60v	-0.55v	-0.50v	-0.45v	-0.40v	-0.35v	-0.30v	-0.25v	-0.20v	-0.15v	-0.1v	
Avg 20B	0.041	2.431 0.672	2.381 0.922	3.231 0.772	2.381 0.829	2.231 0.572	2.181 0.922	2.131 0.972	2.081 1.022	2.031 1.022	1.981 1.123	1.931 1.172	1.881 1.222	1.831 1.272	1.781 1.322	1.731 1.372	1.681 1.422	1.531 1.472	
Avg 21A	-0.052	1.916 0.064	1.866 0.114	1.816 0.164	1.766 0.214	1.716 0.264	1.666 0.014	1.616 0.364	1.566 0.414	1.516 0.464	1.466 0.516	1.416 0.564	1.366 0.614	1.316 0.664	1.265 0.716	1.216 0.764	1.166 0.816	1.116 0.864	
Avg 22A	0.060	1.960 0.220	1.910 0.270	1.860 0.320	1.810 0.370	1.760 0.420	1.710 0.470	1.660 0.520	1.610 0.570	1.560 0.620	1.510 0.670	1.460 0.720	1.410 0.770	1.360 0.820	1.310 0.870	1.260 0.920	1.210 0.970	1.160 1.020	
Avg 23A	0.022	1.878 0.101	1.828 0.151	1.778 0.201	1.728 0.251	1.678 0.301	1.628 0.351	1.578 0.401	1.526 0.451	1.478 0.501	1.428 0.551	1.378 0.601	1.328 0.651	1.278 0.701	1.228 0.751	1.178 0.801	1.128 0.861	1.078 0.901	
Avg 24A	-0.002	2.390 0.588	2.360 0.638	3.290 0.688	2.340 0.738	2.190 0.789	2.140 0.838	2.030 0.888	2.040 0.938	1.990 0.999	1.940 1.038	1.870 1.088	1.840 1.138	1.780 1.188	1.740 1.238	1.690 1.298	1.640 1.338	1.690 1.388	
Avg 25B	-0.032	2.325 0.493	2.275 0.543	2.225 0.593	2.175 0.663	2.125 0.693	2.075 0.763	2.025 0.793	1.975 0.863	1.925 0.883	1.875 0.963	1.825 0.993	1.775 1.043	1.725 1.093	1.675 1.163	1.625 1.193	1.575 1.243	1.525 1.293	
Avg 26B	-0.169	1.712 0.257	1.662 0.207	1.612 0.157	1.562 0.107	1.512 0.057	1.462 0.007	1.412 0.043	1.362 0.093	1.312 0.143	1.262 0.193	1.212 0.243	1.162 0.293	1.112 0.343	1.062 0.393	1.012 0.443	0.863 0.493	0.912 0.543	
Avg 27A	0.120	2.168 0.468	2.033 0.518	2.068 0.568	1.333 0.618	1.963 0.668	1.873 0.748	1.843 0.768	1.739 0.818	1.743 0.868	1.677 0.918	1.647 0.968	1.593 1.018	1.548 1.068	1.493 1.118	1.418 1.168	1.399 1.218	1.319 1.268	
Avg 28C	0.178	2.002 0.385	1.957 0.435	1.907 0.485	1.857 0.535	1.807 0.595	1.757 0.635	1.707 0.685	1.657 0.735	1.607 0.785	1.557 0.835	1.507 0.885	1.457 0.935	1.407 0.985	1.357 1.035	1.307 1.085	1.257 1.135	1.207 1.185	
Avg 29C	-0.129	2.471 0.542	2.421 0.592	2.371 0.642	2.321 0.692	2.271 0.742	2.221 0.792	2.171 0.842	2.121 0.892	2.071 0.942	2.021 0.992	1.971 1.042	1.921 1.092	1.871 1.142	1.821 1.192	1.771 1.242	1.721 1.292	1.671 1.342	
Avg 30B	0.032	2.073 0.304	2.023 0.354	1.973 0.404	1.923 0.454	1.873 0.504	1.823 0.554	1.773 0.604	1.723 0.654	1.673 0.704	1.623 0.754	1.573 0.800	1.523 0.854	1.473 0.904	1.423 0.954	1.373 1.004	1.323 1.054	1.273 1.104	
Avg 31C	-0.174	2.011 0.037	1.961 0.087	1.811 0.137	1.861 0.187	1.811 0.237	1.761 0.287	1.711 0.337	1.661 0.387	1.611 0.437	1.561 0.497	1.511 0.537	1.461 0.587	1.411 0.637	1.361 0.687	1.311 0.737	1.261 0.787	1.211 0.837	
Avg 32C	-0.015	2.285 0.470	2.235 0.520	2.185 0.570	3.135 0.620	2.085 0.670	2.035 0.720	1.985 0.770	1.935 0.820	1.885 0.870	1.835 0.920	1.785 0.970	1.735 1.020	1.685 1.070	1.635 1.120	1.585 1.170	1.535 1.220	1.485 1.270	
Avg 33C	-0.080	2.218 0.338	2.168 0.388	2.118 0.438	2.068 0.488	2.018 0.538	1.868 0.588	1.818 0.638	1.868 0.688	1.818 0.738	1.768 0.788	1.718 0.838	1.668 0.888	1.618 0.938	1.568 0.988	1.518 1.038	1.468 1.088	1.418 1.138	
Avg 34A	-0.209	1.755 0.255	1.705 0.205	1.655 0.155	1.605 0.105	1.555 0.055	1.505 0.005	1.455 0.045	1.405 0.095	1.355 0.145	1.305 0.195	1.255 0.245	1.205 0.295	1.155 0.345	1.105 0.395	1.055 0.445	1.005 0.495	0.955 0.545	
Avg 35C	-0.083	2.260 0.377	2.210 0.427	2.160 0.477	2.110 0.527	2.060 0.577	2.010 0.627	1.960 0.677	1.910 0.727	1.860 0.777	1.810 0.827	1.760 0.877	1.710 0.927	1.660 0.977	1.610 1.027	1.560 1.077	1.510 1.127	1.460 1.177	
Avg 36B	-0.252	2.396 0.384	2.366 0.435	2.226 0.484	2.246 0.534	2.196 0.584	2.146 0.634	2.096 0.684	2.046 0.734	1.936 0.786	1.966 0.834	1.836 0.894	1.646 0.934	1.396 0.994	1.746 1.034	1.696 1.084	1.646 1.134	1.596 1.184	
Avg 37C	0.015	2.249 0.463	2.199 0.519	2.149 0.563	2.099 0.613	2.049 0.663	1.999 0.713	1.943 0.763	1.899 0.813	1.843 0.863	1.739 0.913	1.749 0.963	1.699 1.013	1.669 1.063	1.599 1.113	1.549 1.163	1.499 1.213	1.449 1.263	
Avg 38B	0.003	1.841 0.044	1.791 0.094	1.714 0.144	1.691 0.194	1.661 0.244	1.531 0.294	1.545 0.344	1.491 0.394	1.441 0.444	1.321 0.494	1.341 0.544	1.291 0.594	1.241 0.644	1.191 0.694	1.141 0.744	1.091 0.794	1.041 0.844	

FIG. 6

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Matrix Alignment Conditions



NOTE THAT: AVERAGE $I = I \text{ signal} + I \text{ average noise}$

ROW OF MINIMUM ABSOLUTE DEVIATION: $I \text{ signal} = I \text{ noise closest to } A_v \text{ noise}$

AMOUNT OF DEVIATION = $|IA|$ of the \pm polarity

OF EQUIVALENT COLUMN SHIFT = $|IA| \div \text{COLUMN SPACING}$

FIG. 7

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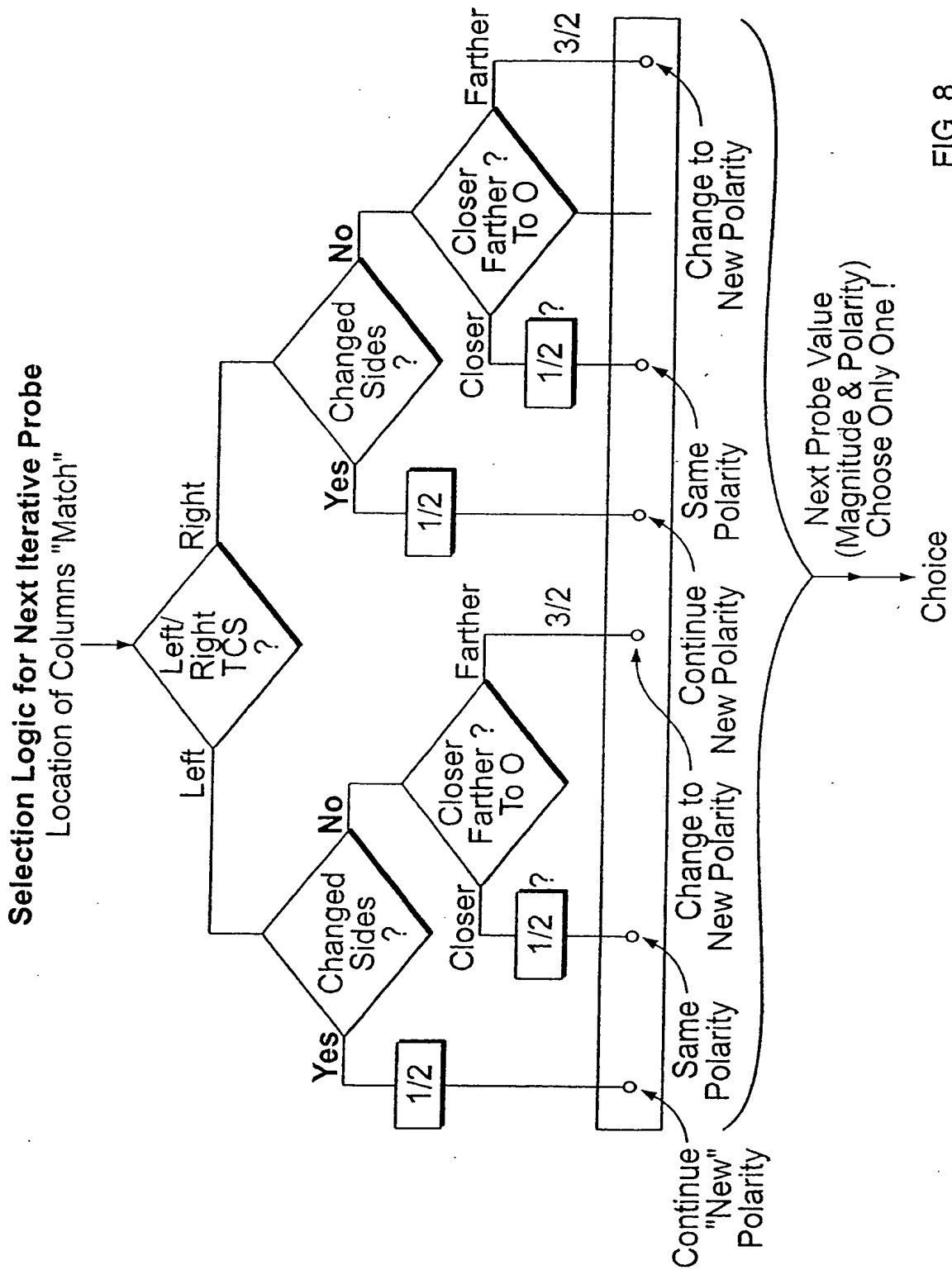


FIG. 8

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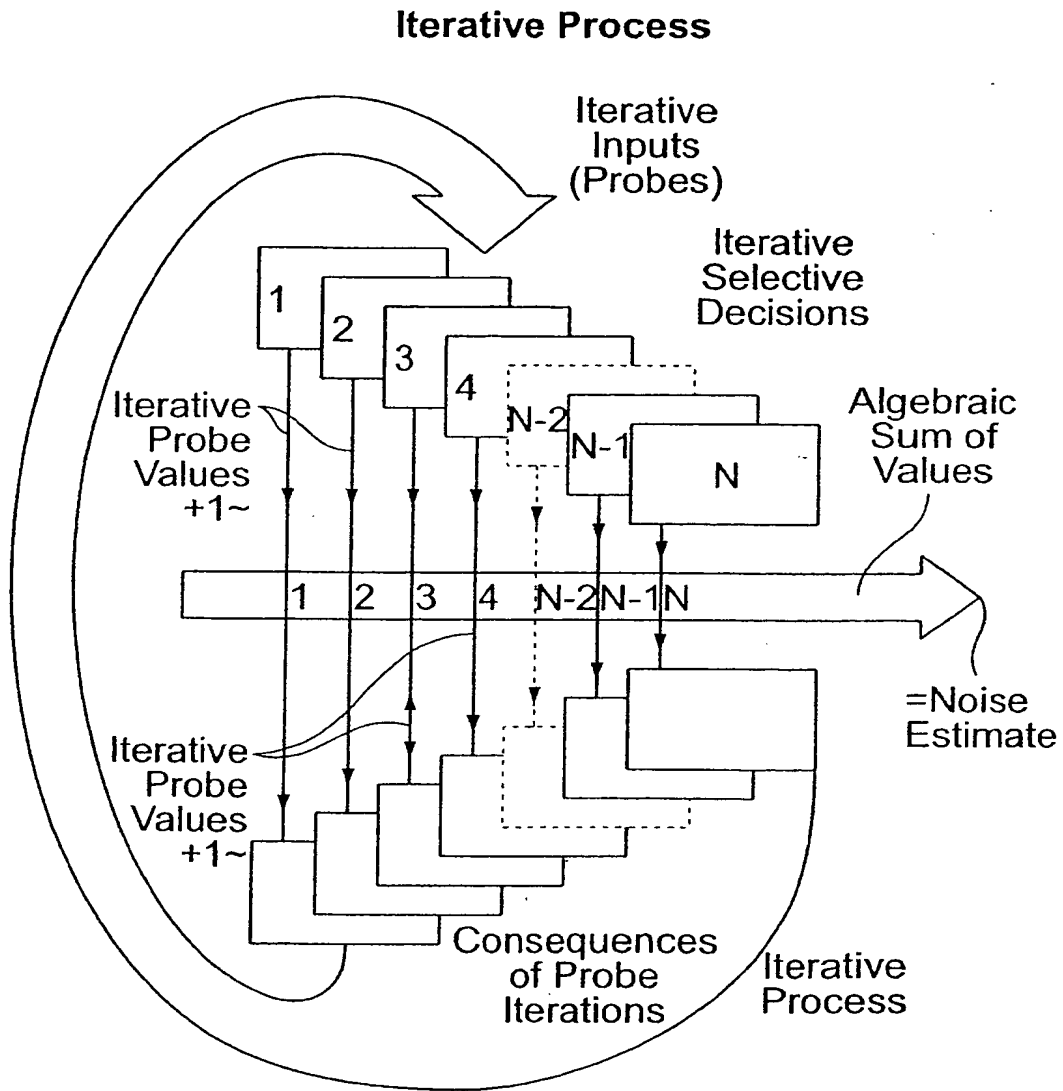


FIG. 9

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Augmentation of Selection Logic

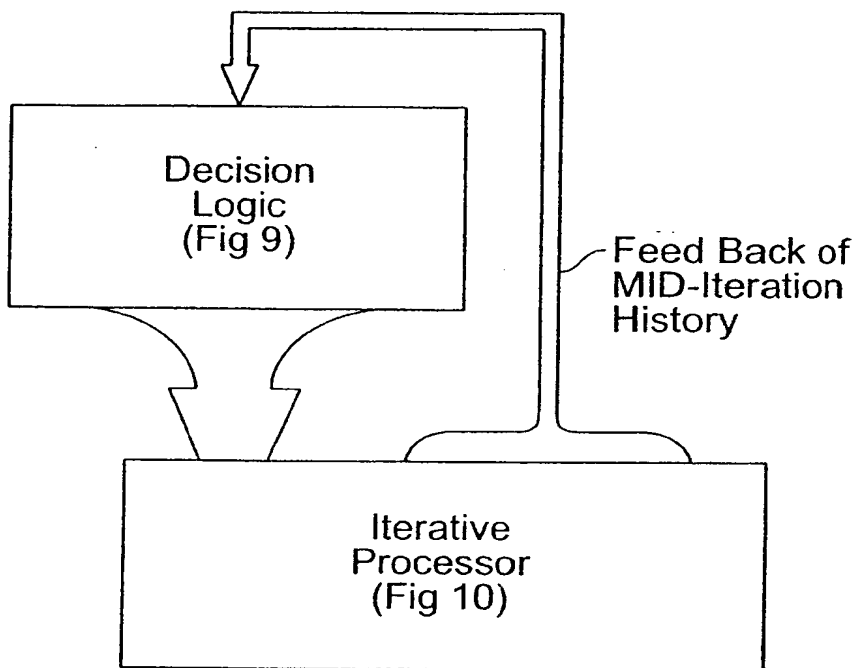


FIG. 10

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RANDOM Q data										
Trial Group		Orig Noise Avg	New Noise Average					Equiv Voltage Added	Last Noise Avg	Ratio Orig Last
			1	2	3	4	5			
205	1	0.4440	0.3970	0.1470	-0.1030	0.0220	-0.0405	-0.4532	-0.0092	48.1
205	2	0.1928	0.0077	-0.2423	0.0087	-0.1173	-0.0548	-0.2163	-0.0235	8.2
205	3	0.2307	0.0107	-0.2198	0.0507	-0.0943	-0.0318	-0.2313	-0.0006	382.9
206	1	0.6667	0.6649	0.3149	0.0619	-0.0601	0.0024	-0.5355	-0.0289	23.1
206	2	-0.0969	0.1153	-0.1347	0.1158	-0.0097	0.0528	0.1174	0.0215	4.5
206	3	0.0218	-0.2565	-0.0065	0.2435	0.1185	0.0060	0.0030	0.0248	0.9
207	1	0.7412	0.7198	0.4694	0.2194	0.0944	0.0319	-0.7406	0.0006	1181.1
207	2	-0.2973	-0.2622	-0.0022	0.2478	0.1228	0.0603	0.3263	0.0290	10.2
207	3	0.3031	-0.0517	0.1983	-0.0517	0.0733	0.0108	-0.4036	-0.0205	18.7
208	1	0.2199	0.1728	-0.0772	0.1229	0.0478	-0.0147	-0.2033	0.0166	13.3
208	2	0.4198	0.3966	0.1466	-0.1034	0.0216	-0.0409	-0.4295	-0.0097	43.4
208	3	-0.1523	-0.0900	0.1600	-0.0900	0.0350	-0.0275	0.1561	0.0038	40.1
209	1	-0.3033	-0.2685	-0.0185	0.2315	0.1065	0.0440	0.3161	0.0187	23.8
209	2	-0.0802	0.0528	-0.1972	0.0528	-0.0722	-0.0097	0.1024	0.0216	3.7
209	3	-0.0148	0.1385	-0.1115	0.1385	0.0135	-0.0490	-0.0029	-0.0177	0.8
210	1	0.2507	0.1607	-0.0693	0.1607	0.0357	-0.0268	-0.2462	0.0044	56.8
210	2	0.2427	0.2049	-0.0451	0.2049	0.0799	0.0174	-0.2666	-0.0139	17.5
210	3	0.0961	-0.0761	0.1739	-0.0741	0.0689	-0.0136	-0.0784	0.0177	5.4
211	1	0.8869	0.2232	-0.0268	0.2232	0.0982	0.0357	-0.2326	0.0044	53.5
211	2	0.4865	0.2534	0.0031	-0.2446	-0.1816	-0.0591	-0.5143	-0.0278	17.5
211	3	-0.7412	-0.7084	-0.4584	-0.2039	-0.0789	-0.0164	0.7660	0.0148	50.1
212	1	0.5285	0.3926	0.1426	-0.1074	0.0176	-0.0449	-0.5421	-0.0136	38.8
212	2	0.1817	0.0830	-0.1679	0.0830	-0.0420	0.0205	-0.1925	-0.0107	16.9
212	3	-0.0208	0.1420	-0.1086	0.1420	0.0170	-0.0455	0.0056	-0.0142	1.5
213	1	-0.2570	-0.1652	0.0848	-0.1652	-0.0402	0.0223	0.2480	-0.0090	28.7
213	2	-0.0064	0.0310	-0.2190	0.0310	-0.0940	-0.0315	0.0067	-0.0003	24.3
213	3	-0.5096	-0.3200	-0.0700	0.1800	0.0550	-0.0075	0.5333	0.0237	21.5
214	1	-0.0216	0.1703	-0.0295	0.1203	0.0453	-0.0172	0.0287	0.0141	1.8
214	2	-0.1596	-0.0912	0.1586	-0.0312	0.0338	-0.0287	0.1620	0.0025	62.8
214	3	0.1216	-0.0494	0.2006	-0.0494	0.0756	0.0131	-0.1398	-0.0181	6.7
215	1	-0.3403	-0.0218	0.2287	-0.0213	0.1037	0.0412	0.3502	0.0099	34.3
215	2	-0.1557	-0.0243	0.2257	-0.0243	0.1007	0.0382	0.1627	0.0069	22.4
215	3	-0.5943	-0.3037	-0.0537	0.1963	0.0713	0.0088	0.5718	-0.0225	26.5
216	1	0.1581	0.0252	-0.2218	0.0282	-0.0968	-0.0343	-0.1614	-0.0030	52.0
216	2	0.3981	0.3294	0.1294	-0.1206	0.0044	-0.0581	-0.4250	-0.0268	14.0
216	3	0.1159	-0.0841	0.1659	-0.0841	0.0409	-0.0216	-0.1063	0.0097	12.0
217	1	0.4497	0.2497	-0.0003	0.2497	0.1257	0.0522	-0.4188	0.0309	14.5
217	2	0.5273	0.2169	-0.0331	0.2169	0.0919	0.0294	-0.5292	-0.0019	278.7
217	3	0.1066	-0.0700	0.1800	-0.0700	0.0550	-0.0075	-0.0829	0.0238	4.5
218	1	-0.4485	-0.2822	-0.0322	0.2178	0.0928	0.0303	0.4475	-0.0010	453.7
218	2	0.0983	-0.1467	0.1058	-0.1447	-0.0197	0.0428	-0.0867	0.0115	8.5
218	3	0.0171	-0.1190	0.1310	-0.1190	0.0060	-0.0565	-0.0423	-0.0252	0.7
219	1	0.0508	-0.1111	0.1389	-0.1111	0.0139	-0.0485	-0.0681	-0.0173	2.9
219	2	0.2668	0.0668	-0.1862	0.0668	-0.0582	0.0043	-0.2938	-0.0270	9.9
219	3	-0.2172	-0.1891	0.0609	-0.1891	-0.0641	-0.0016	0.3088	0.0296	8.4
220	1	0.6507	0.4095	0.3595	0.1095	-0.0155	0.0470	-0.6349	0.0158	41.2
220	2	0.6336	0.3617	0.1112	-0.1383	-0.0144	0.0498	-0.6157	0.0179	35.4
220	3	-0.1340	0.1748	-0.0756	0.1748	0.0438	-0.0127	0.1565	0.0185	3.2

Original Noise

Result of Each of 1st Five
(of Six Iterations)

This Column
Yields
"Estimate"
Noise
(Sum of Values
Added)

Residual Noise

Voltage Ratio

Original
Noise

Result of Each of 1st Five
(of Six Iterations)

This Column
Yields
"Estimate"
Noise
(Sum of Values
Added)

Residual
Noise

Voltage
Ratio

FIG. 11